FIGURE 1

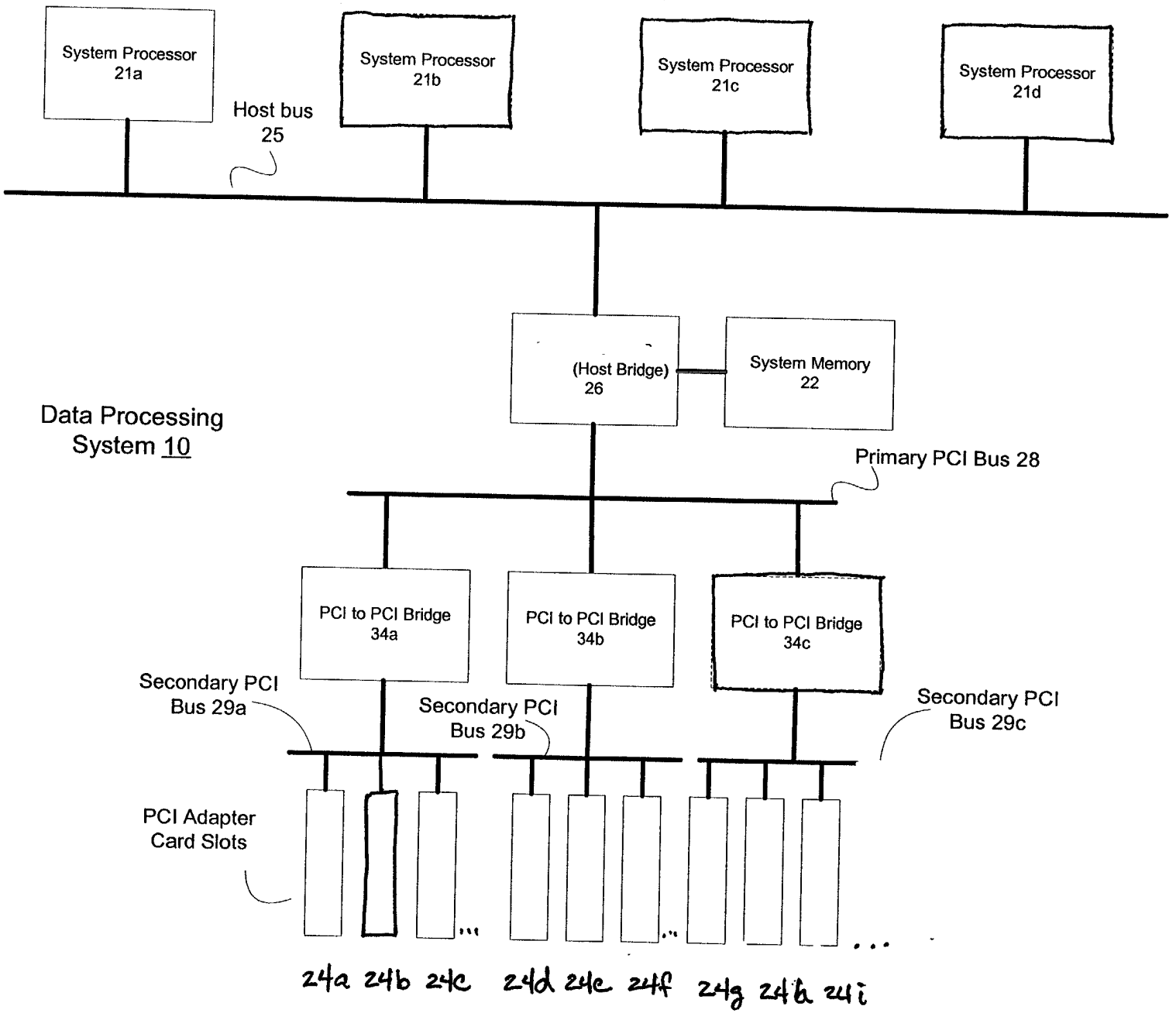

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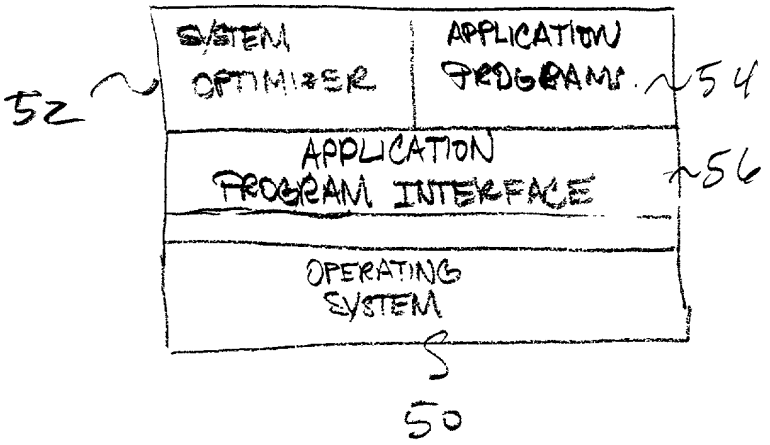
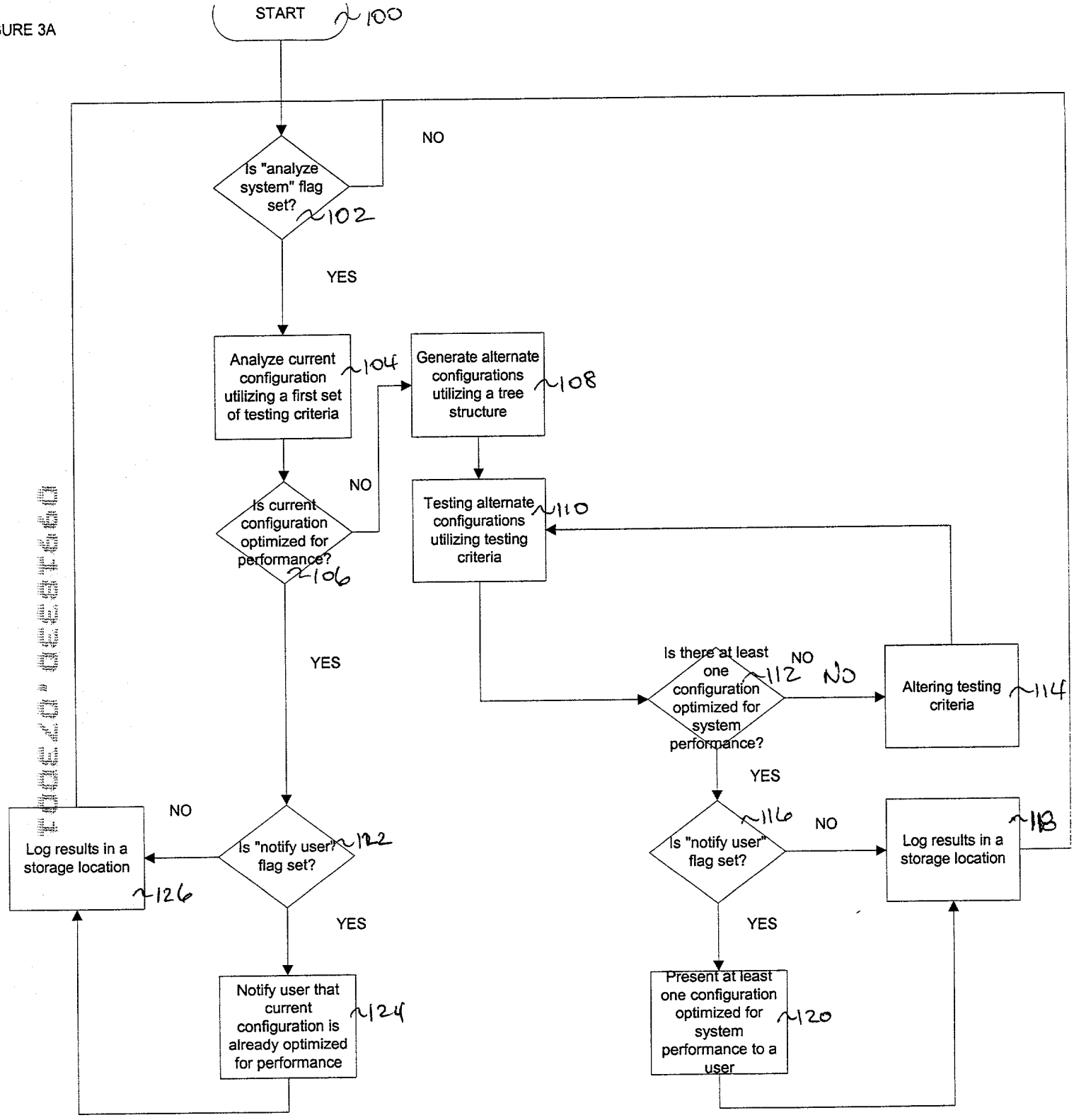
FIGURE 2


SYSTEM OPTIMISER
APPLICATION PROGRAMS
52
54
APPLICATION PROGRAM INTERFACE
56
OPERATING SYSTEM
50

IGURE 3A


START
100
Is "analyze system" flag set?
102
NO
YES
Analyze current configuration utilizing a first set of testing criteria
104
Is current configuration optimized for performance?
106
NO
YES
Generate alternate configurations utilizing a tree structure
108
Testing alternate configurations utilizing testing criteria
110
Is there at least one configuration optimized for system performance?
112
NO
NO
Altering testing criteria
114
YES
Is "notify user" flag set?
116
NO
Log results in a storage location
118
YES
Present at least one configuration optimized for system performance to a user
120
Is "notify user" flag set?
122
NO
Log results in a storage location
126
YES
Notify user that current configuration is already optimized for performance
124

3B
FIGURE 3B

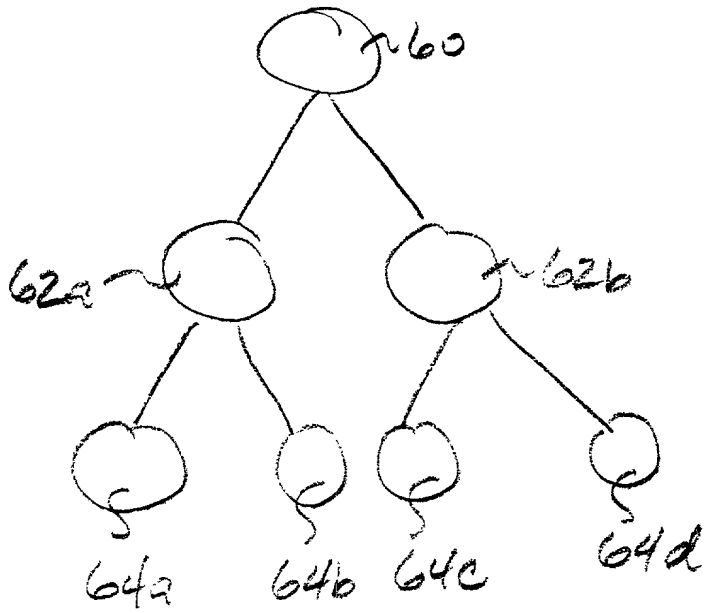


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FIGURE 4A

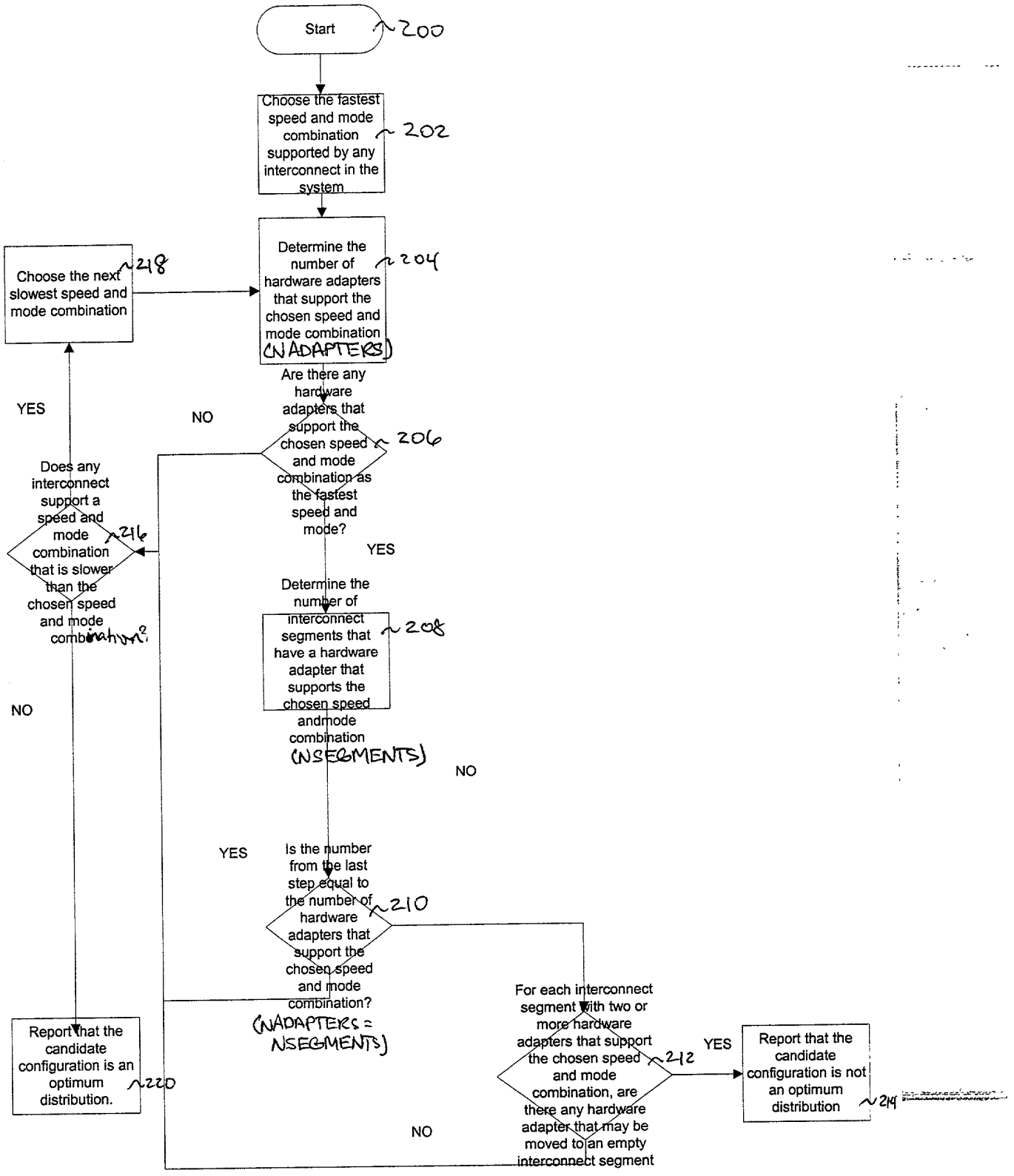
Start
200
Choose the fastest speed and mode combination supported by any interconnect in the system
202
Determine the number of hardware adapters that support the chosen speed and mode combination (N ADAPTERS)
204
Are there any hardware adapters that support the chosen speed and mode combination as the fastest speed and mode?
206
YES
NO
Choose the next slowest speed and mode combination
218
Does any interconnect support a speed and mode combination that is slower than the chosen speed and mode combination?
216
YES
NO
Determine the number of interconnect segments that have a hardware adapter that supports the chosen speed andmode combination (NSEGMENTS)
208
NO
YES
Is the number from the last step equal to the number of hardware adapters that support the chosen speed and mode combination? (NADAPTERS = NSEGMENTS)
210
Report that the candidate configuration is an optimum distribution.
220
For each interconnect segment with two or more hardware adapters that support the chosen speed and mode combination, are there any hardware adapter that may be moved to an empty interconnect segment
212
YES
NO
Report that the candidate configuration is not an optimum distribution
214

FIGURE 4B

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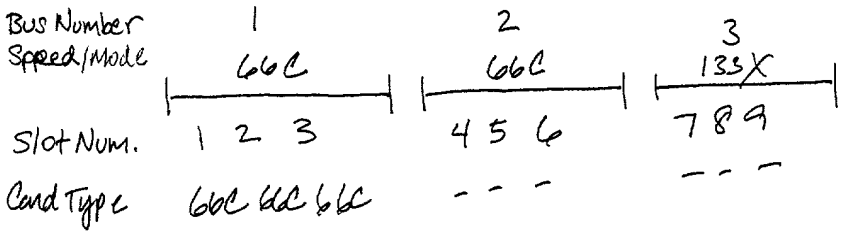
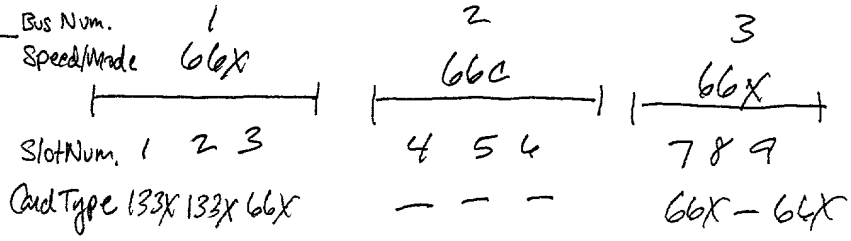
Bus	Slots Supported in 33MHz Conventional Mode	Slots Supported in 66MHz Conventional Mode	Slots, Supported in 66MHz PCI-X Mode	Slots Supported in 100MHz PCI-X Mode	Slots Supported in 133MHz PCI-X Mode
1	3	3	3	2	2
2	3	3	0	0	0
3	3	2	3	2	1

FIGURE 4C



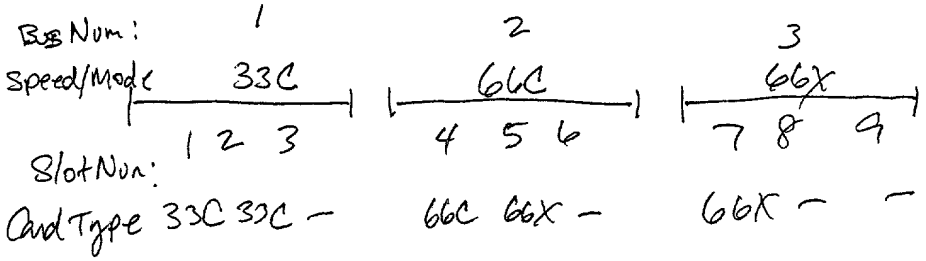
(Improper Distribution)

FIGURE 4D



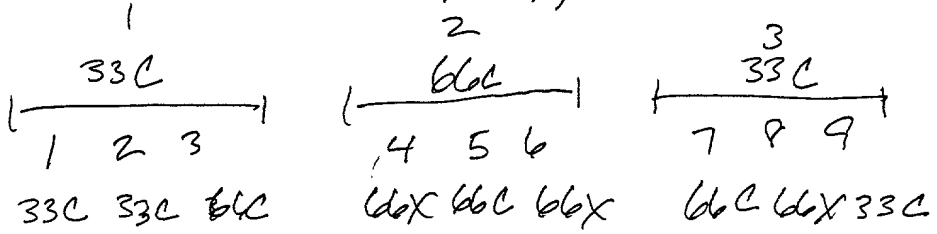
(Mixed Speeds)

FIGURE 4E



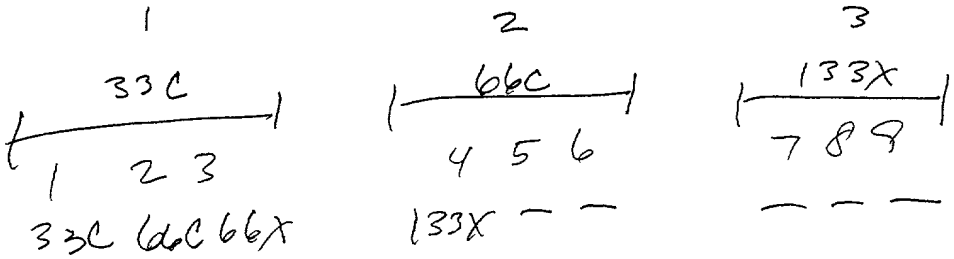
(Coventional mixed w/ PCI-X)

FIGURE 4F



(Swap)

FIGURE 4G



(relaxed criteria)

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